

WHAT IS CLAIMED IS:

1. A method for sealing a honeycomb core, comprising:

step 1: placing plastic films onto the honeycomb core;

5 plastic films;

step 3: pressing the plastic films so as to adhere the plastic films to the honeycomb core, and

step 4: cooling the combination of the plastic films and the honeycomb core.

10 2. The method as claimed in claim 1, wherein the plastic film is a thermoplastic polyurethane (TPU) film.

3. The method as claimed in claim 1, wherein the honeycomb core is made of aluminum, artificial fiber (Nomex), paper, carbon fibers or glass fibers.

15 4. The method as claimed in claim 1, wherein the heating temperature in step 2 is in a range of 130 to 180 degrees Celsius for 1 to 60 minutes.

5. The method as claimed in claim 1, wherein the heating temperature in step 2 is in a range of 140 to 170 degrees Celsius for 5 to 30 minutes.

6. The method as claimed in claim 2, wherein the thermoplastic polyurethane (TPU) film is 0.1 mm to 2.0 mm in thickness.

20 7. The method as claimed in claim 1, wherein a layer of glass fiber tissue is adhered to an outside of each of the plastic films.

8. A method for sealing a honeycomb core, comprising: <

step 1: soaking glass fiber fabric with epoxy resin and making it partially cured for four hours and then placing the glass fiber fabric onto two surfaces of the honeycomb core;

step 2: putting the combination of the honeycomb core and the glass fiber fabric with epoxy resin in a bag;

step 3: vacuuming the bag and the glass fiber fabric being pressed by the atmosphere pressure of 0.08-0.1 MPa(12-14 psi) so as to seal the two surfaces of the honeycomb core, and

step 4: removing the bag from the combination of the honeycomb core and the glass fiber fabric with epoxy resin.

9. A honeycomb core assembly comprising: ✓

a honeycomb core and two plastic films adhered onto two surfaces of the honeycomb core.

10. The honeycomb core assembly as claimed in claim 9, wherein the plastic film is a thermoplastic polyurethane (TPU) film.

11. The honeycomb core assembly as claimed in claim 9, wherein the honeycomb core is made of aluminum, artificial fiber (Nomex), paper, carbon fibers or glass fibers.

12. The honeycomb core assembly as claimed in claim 10, wherein the thermoplastic polyurethane (TPU) film is 0.1 mm to 2.0 mm in thickness.

13. The honeycomb core assembly as claimed in claim 9, wherein a layer of glass fiber tissue is adhered to an outside of each of the plastic films.

14. A honeycomb core assembly comprising: ✓

a honeycomb core and two glass fiber fabric combined with epoxy resin being adhered onto two surfaces of the honeycomb core.

15. The honeycomb core assembly as claimed in claim 14, wherein the honeycomb core is made of aluminum, artificial fiber (Nomex), paper, carbon fibers
5 or glass fibers.